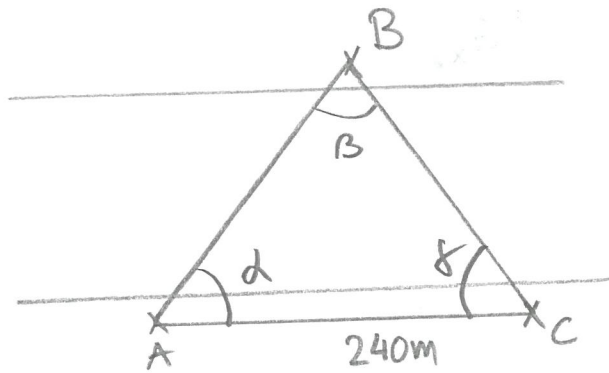


4.4.21



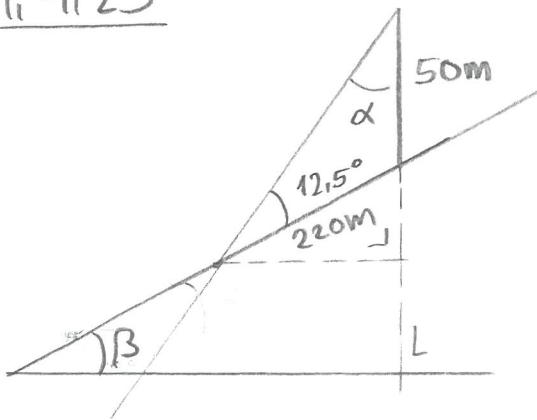
$$\alpha = 63^{\circ}24' = 63,4^{\circ}$$

$$\gamma = 54^{\circ}6' = 54,1^{\circ}$$

$$B = 62,5^{\circ}$$

$$\frac{AB}{\sin(54,1^{\circ})} = \frac{240}{\sin(62,5^{\circ})} \Rightarrow AB = \frac{240 \cdot \sin(54,1^{\circ})}{\sin(62,5^{\circ})} = 219,17 \text{ [m]}$$

4.4.23

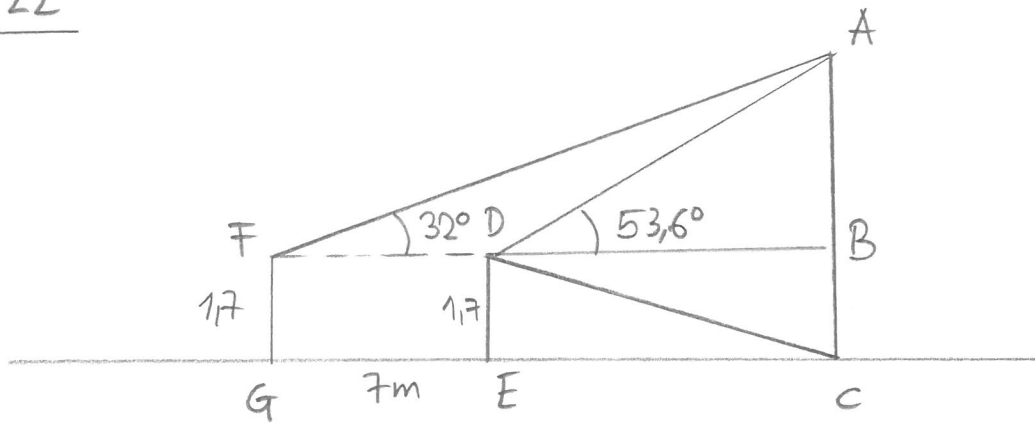


$$\frac{220}{\sin(\alpha)} = \frac{50}{\sin(12,5^{\circ})} \Rightarrow \sin(\alpha) = \frac{220 \cdot \sin(12,5^{\circ})}{50}$$

$$\Rightarrow \alpha \cong 72,24^{\circ}$$

$$B \cong 90^{\circ} - 12,5^{\circ} - 72,24^{\circ} \cong 5,26^{\circ}$$

4.4.22



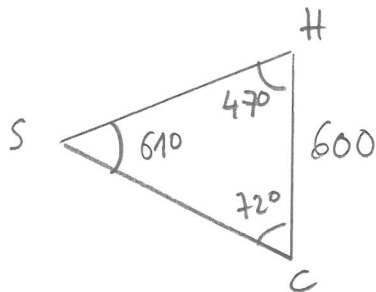
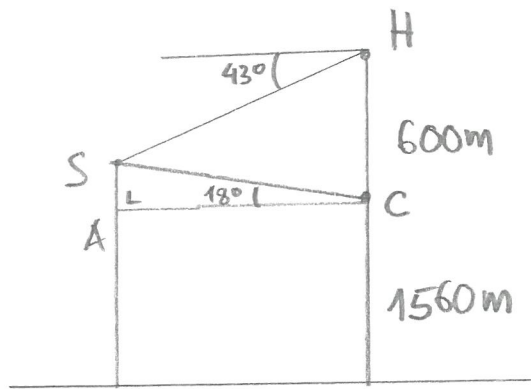
$$\triangle AFD: \hat{F} = 32^\circ, \hat{D} = 126,4^\circ, \hat{A} = 21,6^\circ$$

$$\text{Calculons AD: } \frac{7}{\sin(21,6^\circ)} = \frac{AD}{\sin(32^\circ)} \Rightarrow AD = \frac{7 \cdot \sin(32^\circ)}{\sin(21,6^\circ)} = 10,08 \text{ [m]}$$

$$\text{Calculons AB: } \sin(53,6^\circ) = \frac{AB}{10,08} \Rightarrow AB \approx 8,11 \text{ [m]}$$

Hauteur du pylone: 9,81 [m]

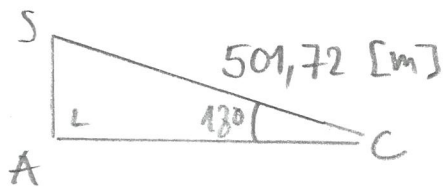
4.4.24



Calculation SC :

$$\frac{600}{\sin(61^\circ)} = \frac{SC}{\sin(47^\circ)}$$

$$\Rightarrow SC = \frac{600 \cdot \sin(47^\circ)}{\sin(61^\circ)} \approx 501,72 \text{ [m]}$$



$$\sin(18^\circ) = \frac{AS}{501,72} \Rightarrow AS = 155 \text{ [m]}$$

$$\cos(18^\circ) = \frac{AC}{501,72} \Rightarrow AC = 477,2 \text{ [m]}$$

$$\text{Altitude de S : } 1560 + 155 = 1715 \text{ [m]}$$